

**EUROPEAN AND MEDITERRANEAN PLANT PROTECTION ORGANIZATION**  
**ORGANISATION EUROPEENNE ET MEDITERRANEENNE POUR LA PROTECTION DES PLANTES**  
**Summary sheet of validation data for a diagnostic test**

The EPPO Standard PM 7/98 *Specific requirements for laboratories preparing accreditation for a plant pest diagnostic activity* describes how validation should be conducted. It also includes definitions of performance criteria.

<b>Laboratory contact details</b>	Netherlands Institute for Vectors, Invasive plants and Plant health P.O. Box 9102, 6700 HC Wageningen, Netherlands
<b>Short description of the test</b>	Validation of the MALDI-TOF MS test for the identification of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> and <i>X. oryzae</i> pv. <i>oryzicola</i>
<b>Date, reference of the validation report</b>	2023-09-27 - BAC-2022-02
<b>Validation process according to EPPO Standard PM7/98?</b>	yes
<b>Is the lab accredited for this test?</b>	no
<b>Was the validated data generated in the framework of a project?</b>	no
<b>Description of the test</b>	
<b>Organism(s)</b>	<i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> (XANTTO) <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> (XANTOR)
<b>Detection / identification</b>	identification
<b>Matrix(ces) tested</b>	Pure culture The isolates are from our own collection or they were obtained from public collections.
<b>Method(s)</b>	MALDI-TOF
<b>Method: MALDI-TOF</b>	
<b>Reference of the test description</b>	
<b>As or adapted from an EPPO diagnostic protocol</b>	no
<b>As or adapted from an IPPC diagnostic protocol</b>	no
<b>Other information</b>	
<b>Other details on the test</b>	MALDI-TOF MS analysis and the creation of MSP's were performed according to the manufacturers' manual. The subtyping method was also performed according to the manufacturers' manual.
<b>Performance Criteria :</b>	
<b>Organism 1.:</b>	<b><i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>(XANTTO)</b>
<b>Analytical specificity - inclusivity</b>	

<b>Number of strains/populations of target organisms tested</b>	11 isolates of <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i>
<b>Specificity value</b>	100% (11 out of 11 were identified correctly)
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	<i>Xanthomonas citri</i> pv. <i>malvacearum</i> , <i>Xanthomonas vasicola</i> pv. <i>holcicola</i> , <i>Xanthomonas axonopodis</i> pv. <i>begoniae</i> , <i>Xanthomonas cassavae</i> , <i>Xanthomonas pisi</i> , <i>Xanthomonas citri</i> pv. <i>citri</i> , <i>Acidovorax avenae</i> subsp. <i>avenae</i> , <i>Acidovorax avenae</i> subsp. <i>avenae</i> , <i>Burkholderia gladioli</i> , <i>Burkholderia glumae</i> , <i>Burkholderia plantarii</i> , <i>Dickeya chrysanthemi</i> , <i>Pantoea agglomerans</i> , <i>Pseudomonas fuscovaginae</i> , <i>Pseudomonas syringae</i> pv. <i>oryzae</i> , <i>Pseudomonas syringae</i> pv. <i>syringae</i> .
<b>Specificity value</b>	100 % (15 non-target isolates out of 15 were not identified as XANTTO)
<b>Organism 2.:</b>	<b><i>Xanthomonas oryzae</i> pv. <i>oryzae</i>(XANTOR)</b>
<b>Analytical specificity - inclusivity</b>	
<b>Number of strains/populations of target organisms tested</b>	18 isolates of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> were tested.
<b>Specificity value</b>	100% (18 out of 18 isolates were identified correctly)
<b>Analytical specificity - exclusivity</b>	
<b>Number of non-target organisms tested</b>	<i>Xanthomonas citri</i> pv. <i>malvacearum</i> , <i>Xanthomonas vasicola</i> pv. <i>holcicola</i> , <i>Xanthomonas axonopodis</i> pv. <i>begoniae</i> , <i>Xanthomonas cassavae</i> , <i>Xanthomonas pisi</i> , <i>Xanthomonas citri</i> pv. <i>citri</i> , <i>Acidovorax avenae</i> subsp. <i>avenae</i> , <i>Acidovorax avenae</i> subsp. <i>avenae</i> , <i>Burkholderia gladioli</i> , <i>Burkholderia glumae</i> , <i>Burkholderia plantarii</i> , <i>Dickeya chrysanthemi</i> , <i>Pantoea agglomerans</i> , <i>Pseudomonas fuscovaginae</i> , <i>Pseudomonas syringae</i> pv. <i>oryzae</i> , <i>Pseudomonas syringae</i> pv. <i>syringae</i> .
<b>Specificity value</b>	100% (15 non-target isolates out of 15 were not identified as XANTOR)
<b>Test performance study</b>	
<b>Test performance study?</b>	no
The following complementary files are available online:	
	<ul style="list-style-type: none"> <li>• <a href="#">Validation MALDI-TOF MS <i>X. oryzae</i></a></li> </ul>

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